



Hawaii Reapportionment Commission

26 September 2011

Commission Meeting

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Topics

- ➔ • **Reapportionment using “Extraction A” population base**
- **Senate Staggered Terms for 2012**
- **Hawaii Reapportionment Commission Plan**
 - Congress
 - Senate
 - House
- **Commission Schedule**

Extraction of Non-Permanent Residents

- EXTRACTION A:	extraction	adjusted total
- Oahu	-15,660	937,547
- Hawaii	-793	184,286
- Maui	-4	154,920
- Kauai	-1	67,090

Adopted by the Hawaii Reapportionment Commission on September 19, 2011

Reapportionment Among Basic Island Units

Apportion Representatives

Hawaii Constitution Article IV Section 4

“The commission shall allocate the total number of members of each house of the state legislature being reapportioned among the four basic island units ... using the **total number of permanent residents** in each of the basic island units and computed by the method known as the **method of equal proportions** ...”

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]

“This method... serves the rational state policies articulated in the Hawaii State Constitution, which recognizes the geographic insularity and unique political and socio-economic identities of the basic island units.”

[State of Hawaii 2001 Reapportionment Commission:
Final Report and Reapportionment Plan, Dec 2001]



- 1) **population base**
- 2) **apportion representatives**
(reapportionment)
- 3) **draw district boundaries**
(redistricting)



Reapportionment Among Basic Island Units

The commission allocated the total number of members of each house of the state legislature among the four basic island units by the method of equal proportions. This is the same method used to apportion the U.S. Congress. To determine each basic island unit's share of seats the commission used the permanent resident population and the Table of Multipliers for the Method of Equal Proportions.

U.S. Census Bureau

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Congressional Apportionment

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In This Section

- About Congressional Apportionment
- Why It's Done
- How Long It's Been Done
- Who's Counted
- How It's Calculated
- Computing Apportionment
- Delivering the Numbers
- Historical Perspective
- Frequently Asked Questions

Computing Apportionment

Article 1, Section 2, of the United States Constitution states:

"Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers...The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten Years, in such Manner as they shall by Law direct."

Therein lies the primary mandate of the U.S. census, apportionment of the House of Representatives. Since that first census in 1790, five methods of apportionment have been used. The current method used, the Method of Equal Proportions, was adopted by congress in 1941 following the census of 1940. This method assigns seats in the House of Representatives according to a "priority" value. The priority value is determined by multiplying the population of a state by a "multiplier."

For example, following Census 2000, each of the 50 states was given one seat out of the current total of 435. The next, or 51st seat, went to the state with the highest priority value and thus became that state's second seat. This continued until all 435 seats had been assigned to a state. This is how it is done.

EQUAL PROPORTIONS METHOD

P - represents a state's total population

n - represents the number of seats a state would have if it gained a seat (because all states automatically received one seat the next seat gained is "seat two," and the next "seat three," and the next "seat four," and so on.)

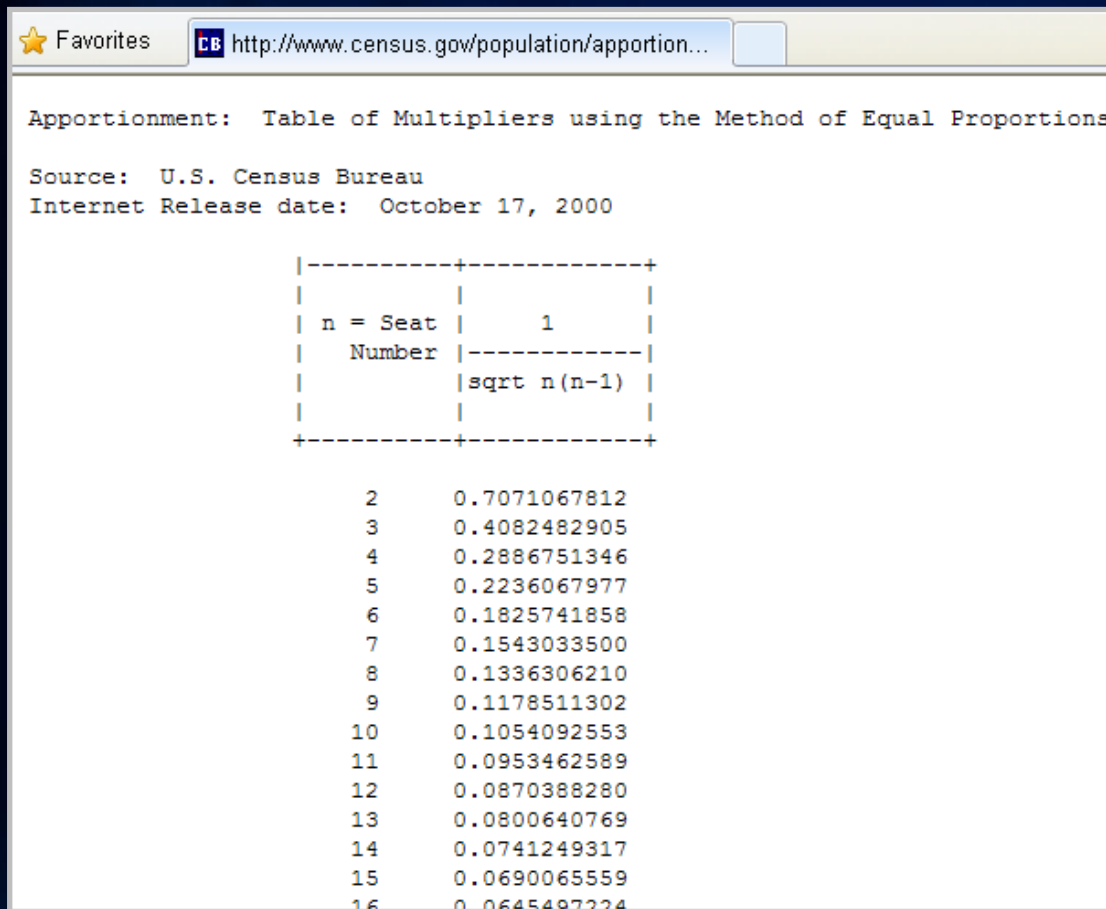
The multiplier equals:

$$1/\sqrt{n(n-1)}$$

<http://www.census.gov/population/apportionment/about/computing.html>

Reapportionment Among Basic Island Units

The method of equal proportions computes “priority values” based on each basic island unit’s apportionment population. The priority values are calculated by dividing the population of each basic island unit by the geometric mean of its current and next seats. The priority values are then ranked and used to assign members in the house and senate starting with the second seat .



A screenshot of a web browser window. The address bar shows a URL from the U.S. Census Bureau. The page title is 'Apportionment: Table of Multipliers using the Method of Equal Proportions'. Below the title, it says 'Source: U.S. Census Bureau' and 'Internet Release date: October 17, 2000'. The main content is a table with two columns: 'n = Seat Number' and a multiplier value. The table is enclosed in a box with a dashed border. The data rows show values for seat numbers 2 through 16.

n = Seat Number	Multiplier
2	0.7071067812
3	0.4082482905
4	0.2886751346
5	0.2236067977
6	0.1825741858
7	0.1543033500
8	0.1336306210
9	0.1178511302
10	0.1054092553
11	0.0953462589
12	0.0870388280
13	0.0800640769
14	0.0741249317
15	0.0690065559
16	0.0645487224

<http://www.census.gov/population/apportionment/data/files/atable.txt>

Reapportionment Among Basic Island Units

RANKING OF PRIORITY VALUES					
Each Basic Island Unit gets one initial seat in each branch, so start with seat #2					
RGM	BIUPop	Priority	Seat#	BIU Senate	BIU House BIU
0.70710678 x	937547 =	662946	5	2	2 Oahu
0.40824829 x	937547 =	382752	6	3	3 Oahu
0.28867513 x	937547 =	270647	7	4	4 Oahu
0.2236068 x	937547 =	209642	8	5	5 Oahu
0.18257419 x	937547 =	171172	9	6	6 Oahu
0.15430335 x	937547 =	144667	10	7	7 Oahu
0.70710678 x	184286 =	130310	11	2	2 Hawaii
0.13363062 x	937547 =	125285	12	8	8 Oahu
0.11785113 x	937547 =	110491	13	9	9 Oahu
0.70710678 x	154920 =	109545	14	2	2 Maui
0.10540926 x	937547 =	98826.1	15	10	10 Oahu
0.09534626 x	937547 =	89391.6	16	11	11 Oahu
0.08703883 x	937547 =	81603	17	12	12 Oahu
0.40824829 x	184286 =	75234.4	18	3	3 Hawaii
0.08006408 x	937547 =	75063.8	19	13	13 Oahu
0.07412493 x	937547 =	69495.6	20	14	14 Oahu
0.06900656 x	937547 =	64696.9	21	15	15 Oahu
0.40824829 x	154920 =	63245.8	22	3	3 Maui
0.06454972 x	937547 =	60518.4	23	16	16 Oahu
0.06063391 x	937547 =	56847.1	24	17	17 Oahu
0.0571662 x	937547 =	53596	25	18	18 Oahu
0.28867513 x	184286 =	53198.8	26		4 Hawaii
0.05407381 x	937547 =	50696.7	27		19 Oahu
0.05129892 x	937547 =	48095.1	28		20 Oahu
0.70710678 x	67090 =	47439.8	29		2 Kauai
0.0487950 x	937547 =	45747.6	30		21 Oahu
0.28867513 x	154920 =	44721.6	31		4 Maui
0.04652421 x	937547 =	43618.6	32		22 Oahu
0.04445542 x	937547 =	41679	33		23 Oahu
0.2236068 x	184286 =	41207.6	34		5 Hawaii
0.04256283 x	937547 =	39904.7	35		24 Oahu
0.04082483 x	937547 =	38275.2	36		25 Oahu
0.03922323 x	937547 =	36773.6	37		26 Oahu
0.03774257 x	937547 =	35385.4	38		27 Oahu
0.2236068 x	154920 =	34641.2	39		5 Maui
0.03636965 x	937547 =	34098.3	40		28 Oahu
0.18257419 x	184286 =	33645.9	41		6 Hawaii
0.03509312 x	937547 =	32901.4	42		29 Oahu
0.03390318 x	937547 =	31785.8	43		30 Oahu
0.03279129 x	937547 =	30743.4	44		31 Oahu
0.0317500 x	937547 =	29767.1	45		32 Oahu
0.03077287 x	937547 =	28851	46		33 Oahu
0.15430335 x	184286 =	28435.9	47		7 Hawaii
0.18257419 x	154920 =	28284.4	48		6 Maui
0.02985407 x	937547 =	27989.6	49		34 Oahu
0.40824829 x	67090 =	27389.4	50		3 Kauai
0.02898855 x	937547 =	27178.1	51		35 Oahu

Using “Extraction A”
population base

Senate Seats by Basic Island Unit

State	1,360,301	25
Oahu	937,547	18
Hawaii	184,286	3
Maui	154,920	3
Kauai	67,090	1

House Seats by Basic Island Unit

State	1,360,301	51
Oahu	937,547	35
Hawaii	184,286	7
Maui	154,920	6
Kauai	67,090	3

Reapportionment Among Basic Island Units

Burns v Gill method of measuring total representation

Extraction A		S seats	H seats	Tot seats	Pop/seat	Deviation
State of Hawaii	1,343,843	25	51	76	17,682	
Oahu BIU	937,547	18	35	53	17,690	0.04%
Hawaii BIU	184,286	3	7	10	18,429	4.22%
Maui BIU	154,920	3	6	9	17,213	-2.65%
Kauai BIU	67,090	1	3	4	16,773	-5.14%
overall	1343843	25	51			9.37%

Topics

- Reapportionment using “Extraction A” population base

• Senate Staggered Terms for 2012

- Hawaii Reapportionment Commission Plan
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- Commission Schedule

Senate Staggered Terms

Staggered Terms for the Senate

Hawaii Constitution Article IV Sections 7 and 8

“The reapportionment commission shall, as part of the reapportionment plan, assign two-year terms for twelve senate seats for the election immediately following the adoption of the reapportionment plan.

The remaining seats shall be assigned four-year terms.

Insofar as practicable, the commission shall assign the two-year terms to senate seats so that the resident population of each senate district shall have no more than two regular senate elections for a particular senate seat within the six-year period beginning in the even-numbered year prior to the reapportionment year.”

[Add Const Con 1978 and election Nov 7, 1978; am HB 572 (1987) and election Nov 8, 1988; am SB 2234 (1992) and election Nov 3, 1992; am HB 1 (2000 2d) and election Nov 7, 2000]

Senate Staggered Terms for 2012

92.1% match rate

	2010	2010 SE Pop	2012
Senate 1	no	4,551	2 years
Senate 2	YES	62,954	4 years
Senate 3	no	0	2 years
Senate 4	YES	53,971	4 years
Senate 5	no	0	2 years
Senate 6	no	1,626	2 years
Senate 7	YES	67,090	4 years
Senate 8	YES	52,038	4 years
Senate 9	YES	52,162	4 years
Senate 10	YES	50,370	4 years
Senate 11	no	0	2 years
Senate 12	no	0	2 years
Senate 13	YES	52,582	4 years
Senate 14	YES	46,702	4 years
Senate 15	YES	53,440	4 years
Senate 16	no	7,575	2 years
Senate 17	no	8,230	2 years
Senate 18	no	12,096	2 years
Senate 19	YES	51,591	4 years
Senate 20	YES	54,332	4 years
Senate 21	no	3,237	2 years
Senate 22	YES	44,060	4 years
Senate 23	no	22,505	2 years
Senate 24	YES	30,542	2 years
Senate 25	YES	50,444	4 years

2010 SE Pop =
2010 senate election population in
each of the new senate districts

The commission staff has identified each census block with a designation that it did or did not participate in an election for state senator in the 2010 election.

The staff has determined the population of each census block in each new senate district that had an election for senate in the year 2010.

The staff has identified twelve new senate districts seats which had the smallest populations of participation in the 2010 senatorial elections. These twelve new senate districts will be designated by the commission to have two year terms in the 2012 election.

Topics

- Reapportionment using “Extraction A” population base
- Senate Staggered Terms for 2012
- ➔ • Hawaii Reapportionment Commission Plan
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Reapportionment Within Basic Island Units

Redraw District Lines

Hawaii Constitution Article IV Section 6

“Upon the determination of the total number of members of each house of the state legislature to which each basic island unit is entitled, the commission shall... **redraw district lines** where necessary in such manner that for each house **the average number of permanent residents...** in each district is nearly equal to the average for the basic island unit as practicable.

[Add Const Con 1978 and election Nov 7, 1978;
am HB 2327 (1992) and election Nov 3, 1992]



- 1) **population base**
- 2) **apportion representatives**
(reapportionment)
- 3) **draw district boundaries**
(redistricting)



Redistricting Within Basic Island Units

Using “Extraction A” population base

Senate Seats by Basic Island Unit

State	1,360,301	25	target
Oahu	937,547	18	52,086
Hawaii	184,286	3	61,429
Maui	154,920	3	51,640
Kauai	67,090	1	67,090

House Seats by Basic Island Unit

State	1,360,301	51	target
Oahu	937,547	35	26,787
Hawaii	184,286	7	26,327
Maui	154,920	6	25,820
Kauai	67,090	3	22,363



- 1) population base
- 2) apportion representatives (reapportionment)
- 3) draw district boundaries (redistricting)



Recommended Final Plan

Except for Congress, the Recommended Final Plan uses the “Extraction A” population base and reflects changes made since public hearings completed.

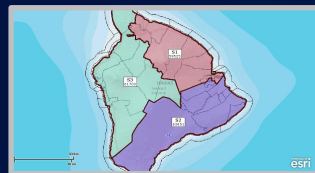
State

Congress



Hawaii

Senate



House

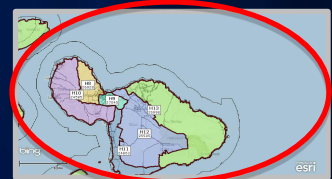


Maui

Senate



House



Kauai

Senate

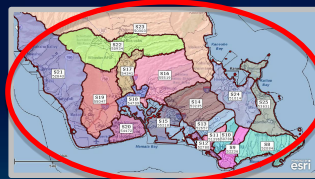


House



Oahu

Senate



House



Aug 5 Proposed Plan – Congress

HAWAII REAPPORTIONMENT COMMISSION




Plan: Congress
Districts: two (Congress 1 - 2)
Target Population: 680,151 per district

PROPOSED PLAN: CONGRESS

Plan Deviation: 0.10%
highest deviation: 0.05%
lowest deviation: -0.05%

District Statistics

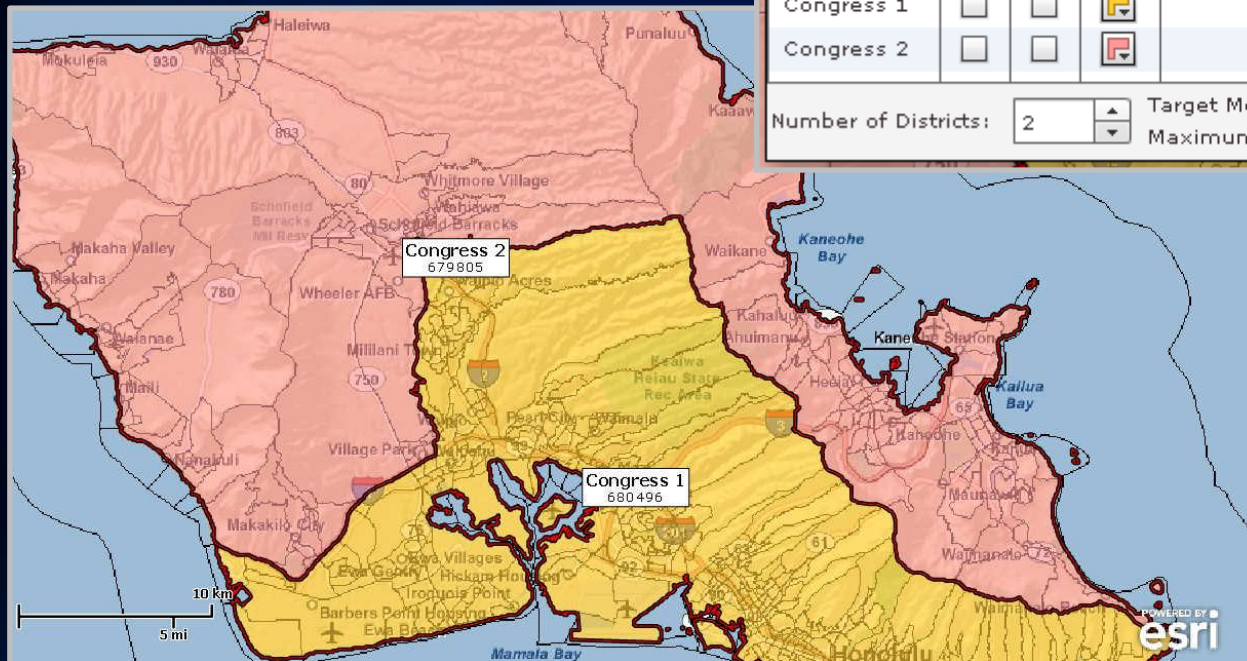
Current Proposed Assigned Comparison

District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		680,496	346	0.05
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		679,805	-345	-0.05

Number of Districts: 2 Target Mean = 680,151
Maximum Dev. (%): 1

Swap...

Rename...



Recommended Final Plan – Congress

HAWAII REAPPORTIONMENT COMMISSION




Plan: Statewide Congress
Districts: two (Congress 1 - 2)
Target Population: 680,151 per district

FINAL PLAN: CONGRESS

Plan Deviation: 0.10%
highest deviation: 0.05%
lowest deviation: -0.05%

District Statistics

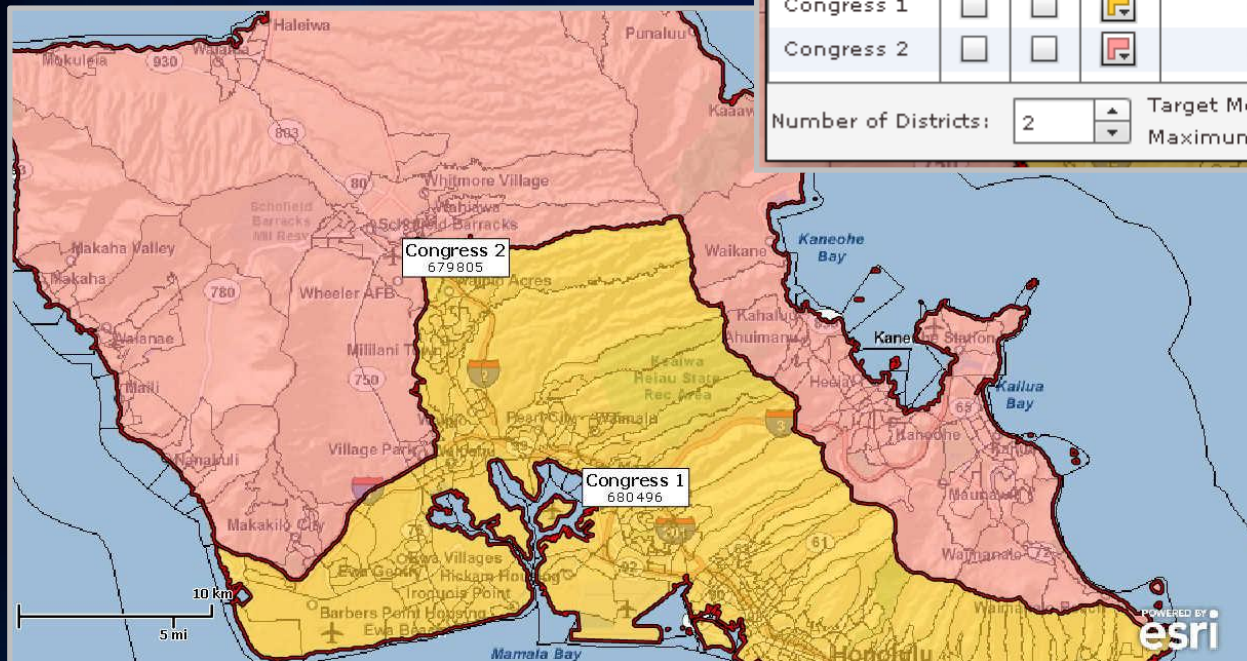
Current Proposed Assigned Comparison

District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Congress 1	<input type="checkbox"/>	<input type="checkbox"/>		680,496	346	0.05
Congress 2	<input type="checkbox"/>	<input type="checkbox"/>		679,805	-345	-0.05

Number of Districts: 2 Target Mean = 680,151
Maximum Dev. (%): 1

Swap...

Rename...



Aug 5 Proposed Plan – Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION





PROPOSED PLAN: SENATE HAWAII

Plan: Senate Hawaii
Districts: three (Senate 1 - 3)
Target Population: 61,693 per district

Plan Deviation: 7.01%
highest deviation: 3.50%
lowest deviation: -3.51%

District Statistics

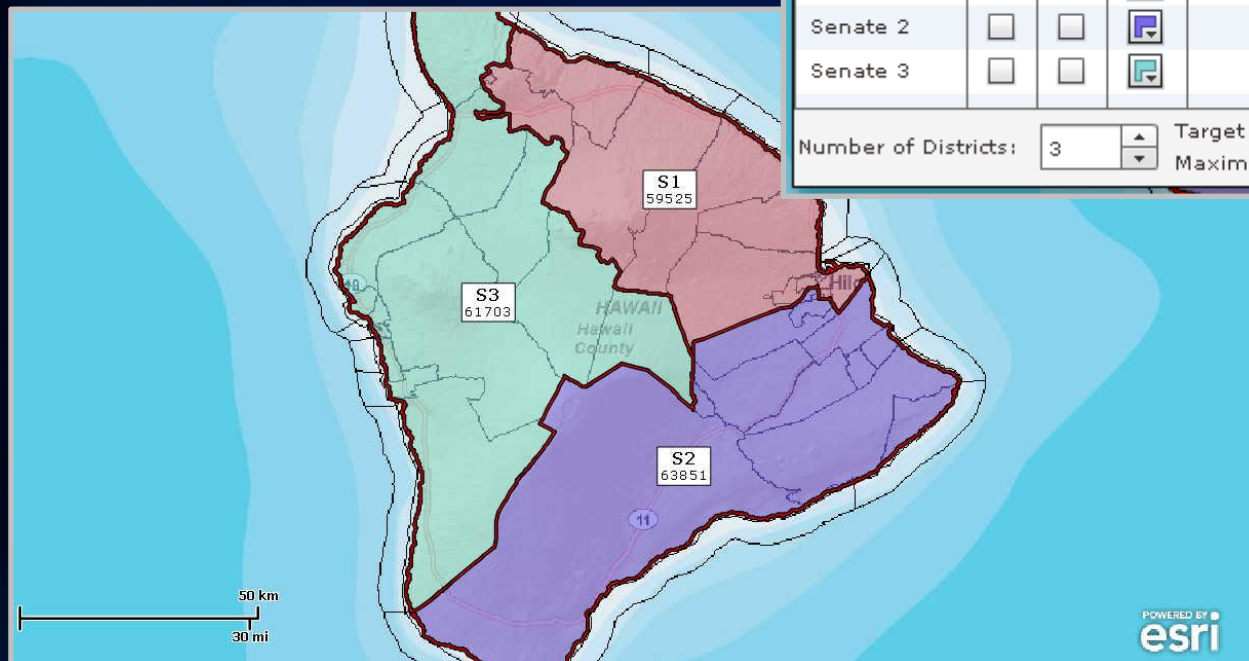
Current Proposed Assigned Comparison

District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
Senate 1	<input type="checkbox"/>	<input type="checkbox"/>		59,525	-2,168	-3.51
Senate 2	<input type="checkbox"/>	<input type="checkbox"/>		63,851	2,158	3.50
Senate 3	<input type="checkbox"/>	<input type="checkbox"/>		61,703	10	0.02

Number of Districts: 3 Target Mean = 61,693
Maximum Dev. (%): 10

Swap...

Rename...



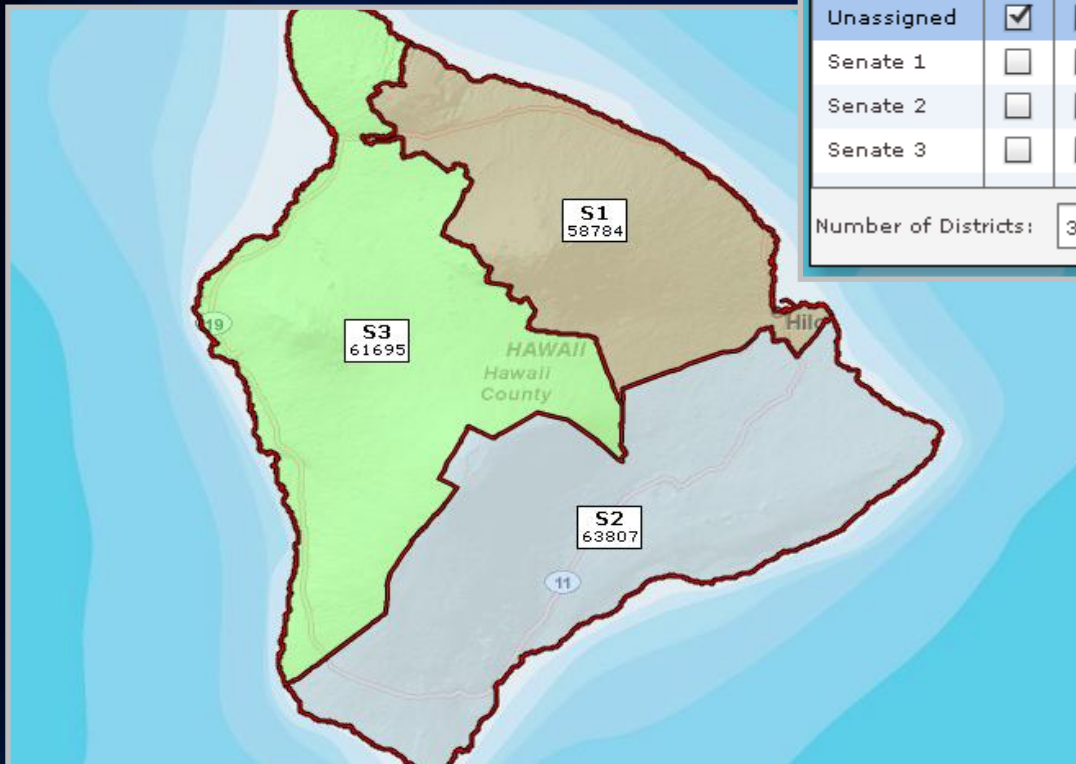
Recommended Final Plan – Senate Hawaii

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: HAWAII SENATE

Plan: Hawaii Senate
Districts: three (Senate 1 - 3)
Target Population: 61,429 per district

Plan Deviation: **8.18%**
highest deviation: 3.87%
lowest deviation: -4.31%



District Statistics							
Current Proposed Assigned Comparison							
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 1	<input type="checkbox"/>	<input type="checkbox"/>		58,784	-2,645	-4.31	
Senate 2	<input type="checkbox"/>	<input type="checkbox"/>		63,807	2,378	3.87	
Senate 3	<input type="checkbox"/>	<input type="checkbox"/>		61,695	266	0.43	
Number of Districts: 3				Target Mean = 61,429		Swap...	
				Maximum Dev. (%): 10		Rename...	





Aug 5 Proposed Plan – Senate Maui

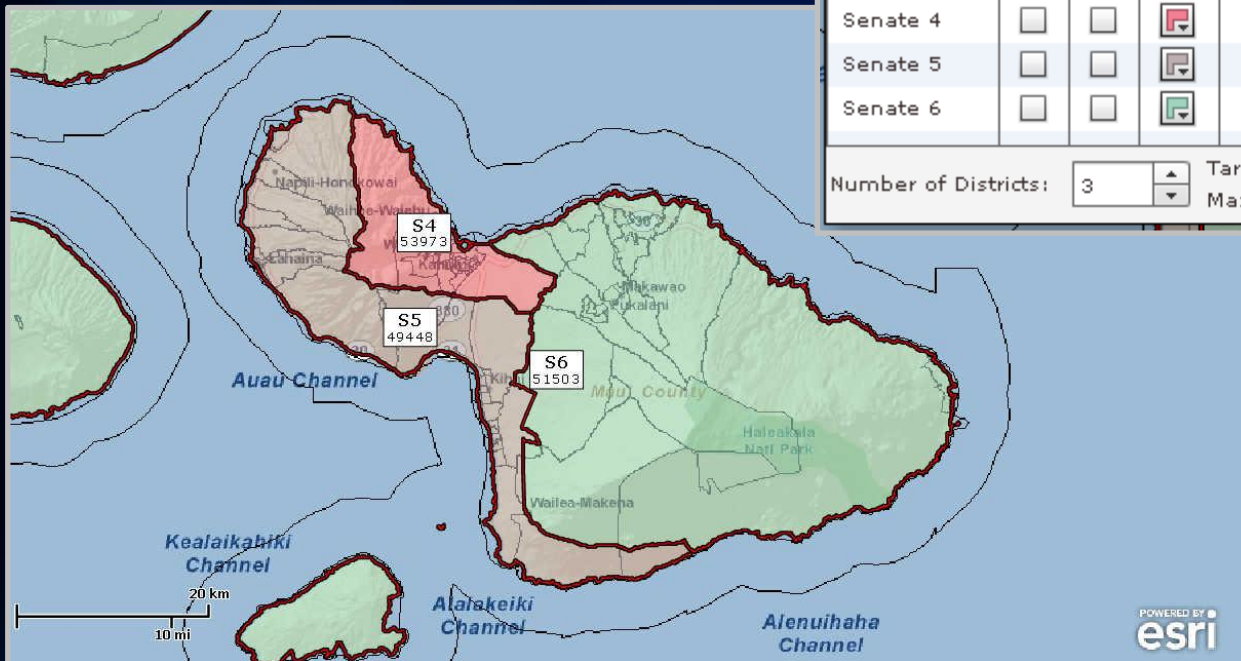
HAWAII REAPPORTIONMENT COMMISSION

Plan: Senate Maui
Districts: three (Senate 4 - 6)
Target Population: 51,641 per district

PROPOSED PLAN: SENATE MAUI

Plan Deviation: 8.77%
highest deviation: 4.52%
lowest deviation: -4.25%

District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		53,973	2,332	4.52	
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,448	-2,193	-4.25	
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		51,503	-138	-0.27	
Number of Districts: 3				Target Mean = 51,641		Swap...	
				Maximum Dev. (%): 10		Rename...	



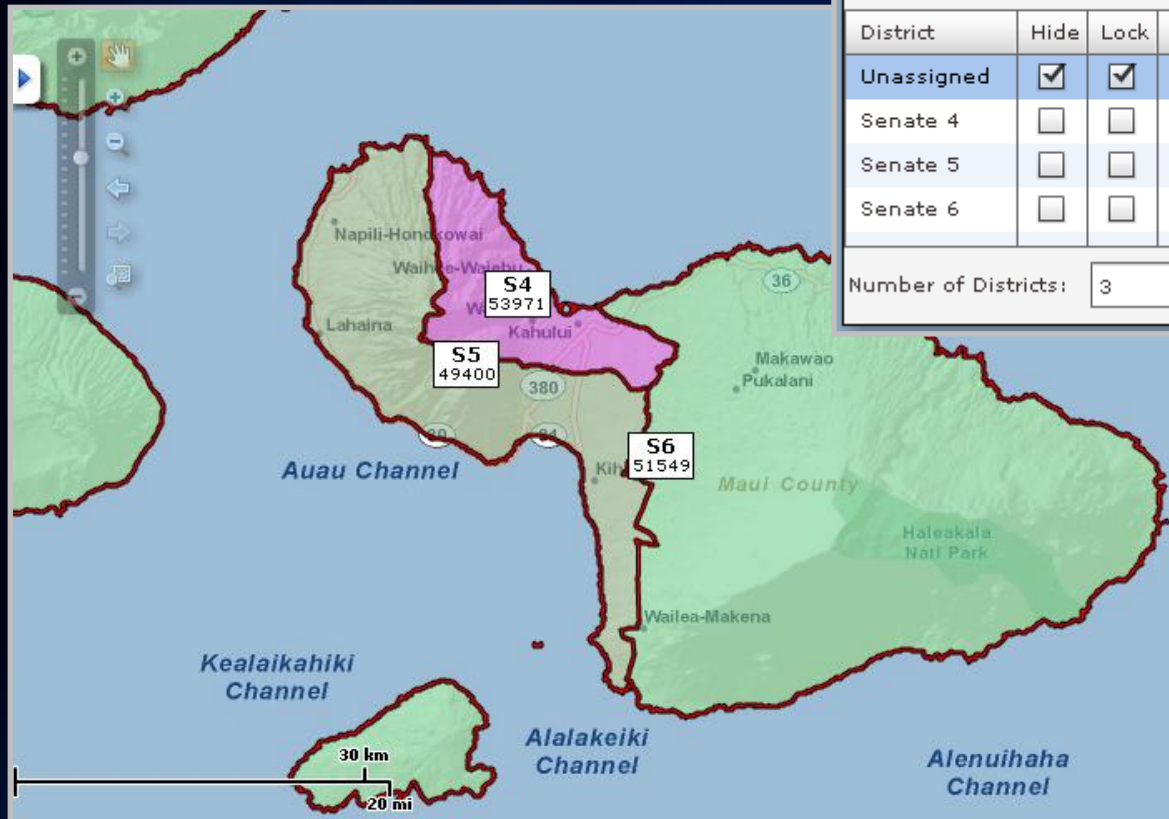
Recommended Final Plan – Senate Maui

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: MAUI SENATE

Plan: Maui Senate
Districts: three (Senate 4 - 6)
Target Population: 51,640 per district

Plan Deviation: 8.85%
highest deviation: 4.51%
lowest deviation: -4.34%



District Statistics

	Current	Proposed	Assigned	Comparison			
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 4	<input type="checkbox"/>	<input type="checkbox"/>		53,971	2,331	4.51	
Senate 5	<input type="checkbox"/>	<input type="checkbox"/>		49,400	-2,240	-4.34	
Senate 6	<input type="checkbox"/>	<input type="checkbox"/>		51,549	-91	-0.18	
Number of Districts: 3				Target Mean = 51,640			Swap...
				Maximum Dev. (%): 10			Rename...

Recommended Final Plan – Senate Maui



Recommended Final Plan – Senate Kauai



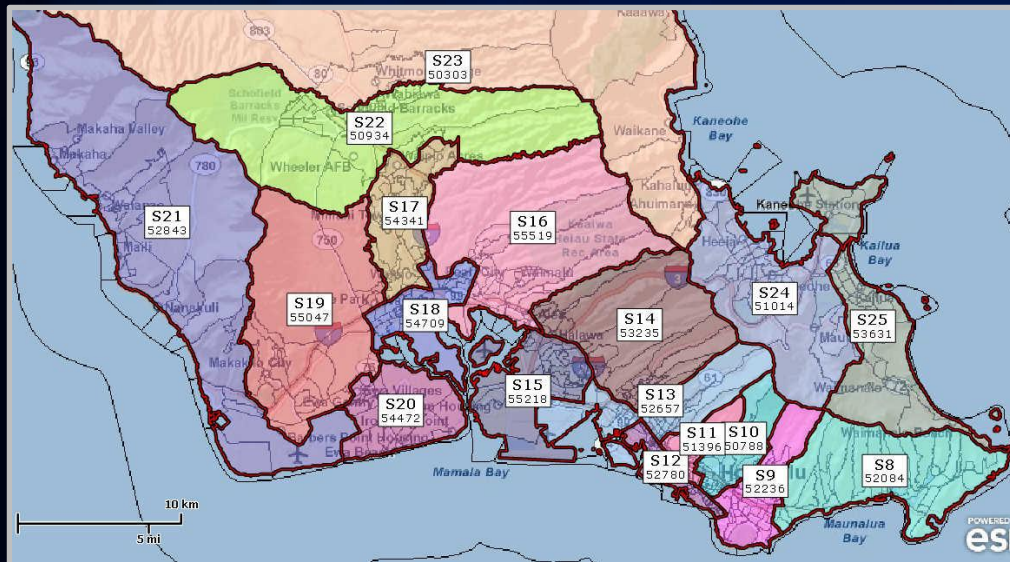
Aug 5 Proposed Plan – Senate Oahu

HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: SENATE OAHU

Plan: Senate Oahu
 Districts: eighteen (Senate 8 - 25)
 Target Population: 52,956 per district

Plan Deviation: 9.85%
 highest deviation: 4.84%
 lowest deviation: -5.01%



District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		52,084	-872	-1.65	
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		52,236	-720	-1.36	
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		50,788	-2,168	-4.09	
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		51,396	-1,560	-2.95	
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		52,780	-176	-0.33	
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		52,657	-299	-0.56	
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		53,235	279	0.53	
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		55,218	2,262	4.27	
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		55,519	2,563	4.84	
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		54,341	1,385	2.62	
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		54,709	1,753	3.31	
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		55,047	2,091	3.95	
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		54,472	1,516	2.86	
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		52,843	-113	-0.21	
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		50,934	-2,022	-3.82	
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		50,303	-2,653	-5.01	
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		51,014	-1,942	-3.67	
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		53,631	675	1.27	

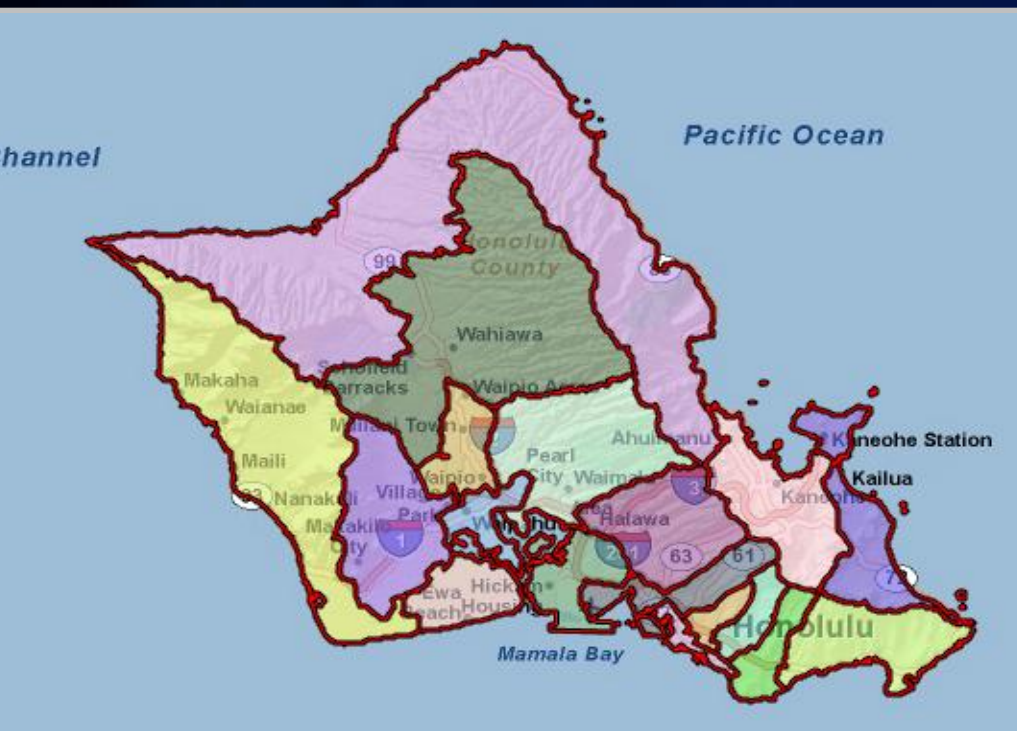
Number of Districts: 18 Target Mean = 52,956
 Maximum Dev. (%): 10 Swap... Rename...

Recommended Final Plan – Senate Oahu

HAWAII REAPPORTIONMENT COMMISSION

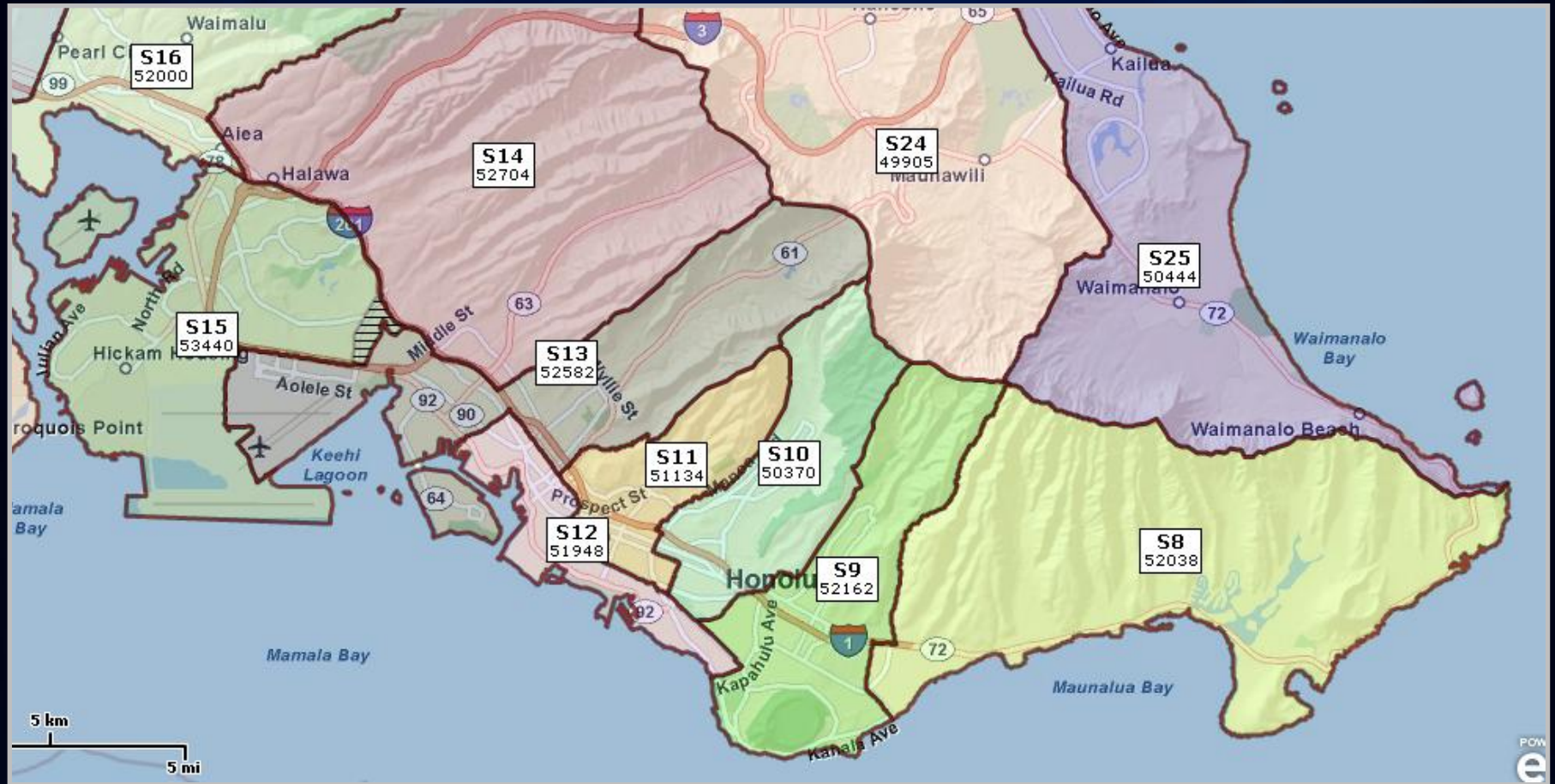
FINAL PLAN: OAHU SENATE

Plan:	Oahu Senate	Plan Deviation:	8.50%
Districts:	eighteen (Senate 8 - 25)	highest deviation:	4.31%
Target Population:	52,086 per district	lowest deviation:	-4.19%

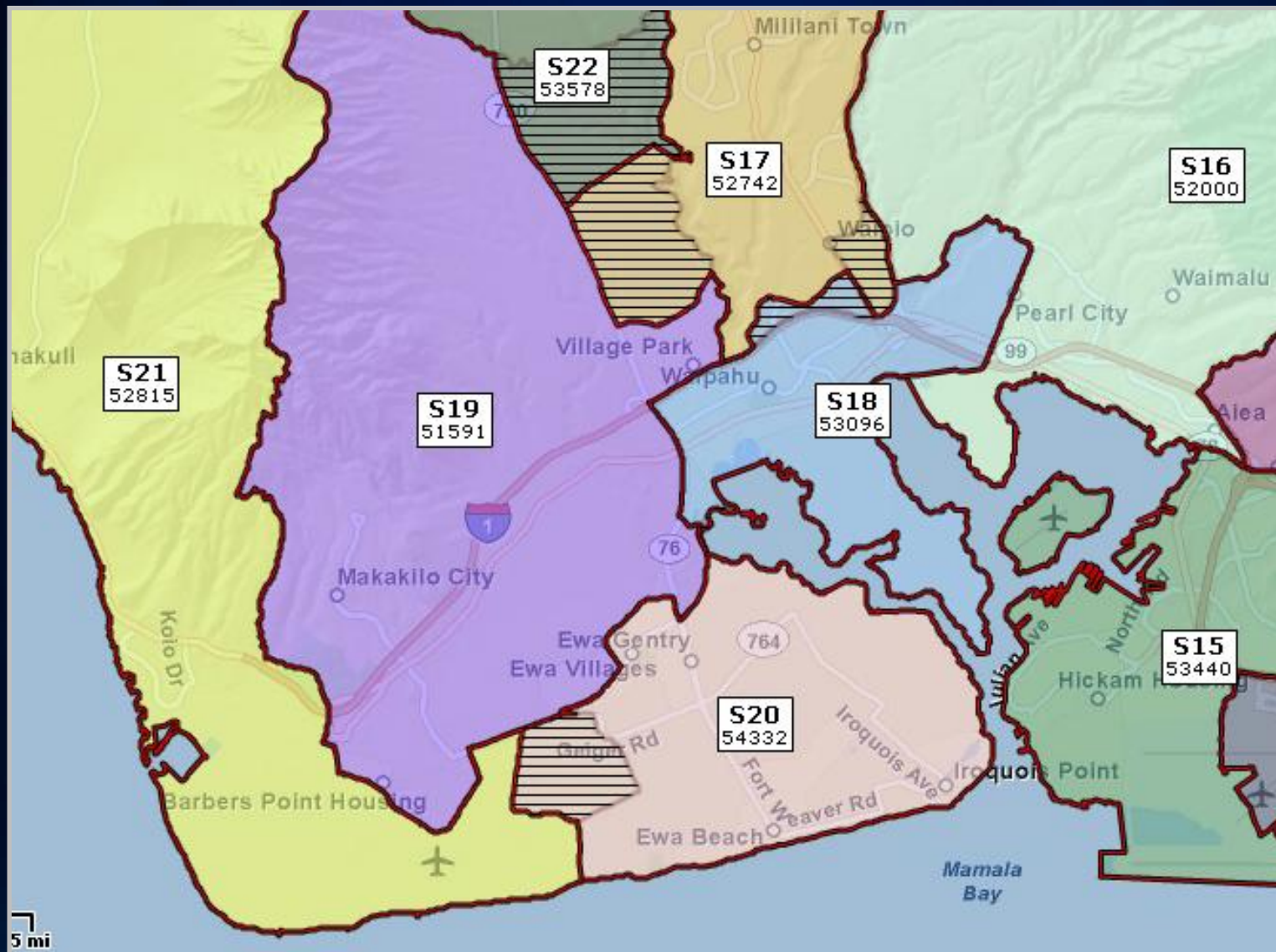


District Statistics							
Current	Proposed	Assigned	Comparison				
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
Senate 8	<input type="checkbox"/>	<input type="checkbox"/>		52,038	-48	-0.09	
Senate 9	<input type="checkbox"/>	<input type="checkbox"/>		52,162	76	0.15	
Senate 10	<input type="checkbox"/>	<input type="checkbox"/>		50,370	-1,716	-3.29	
Senate 11	<input type="checkbox"/>	<input type="checkbox"/>		51,134	-952	-1.83	
Senate 12	<input type="checkbox"/>	<input type="checkbox"/>		51,948	-138	-0.26	
Senate 13	<input type="checkbox"/>	<input type="checkbox"/>		52,582	496	0.95	
Senate 14	<input type="checkbox"/>	<input type="checkbox"/>		52,704	618	1.19	
Senate 15	<input type="checkbox"/>	<input type="checkbox"/>		53,440	1,354	2.60	
Senate 16	<input type="checkbox"/>	<input type="checkbox"/>		52,000	-86	-0.17	
Senate 17	<input type="checkbox"/>	<input type="checkbox"/>		52,742	656	1.26	
Senate 18	<input type="checkbox"/>	<input type="checkbox"/>		53,096	1,010	1.94	
Senate 19	<input type="checkbox"/>	<input type="checkbox"/>		51,591	-495	-0.95	
Senate 20	<input type="checkbox"/>	<input type="checkbox"/>		54,332	2,246	4.31	
Senate 21	<input type="checkbox"/>	<input type="checkbox"/>		52,815	729	1.40	
Senate 22	<input type="checkbox"/>	<input type="checkbox"/>		53,578	1,492	2.86	
Senate 23	<input type="checkbox"/>	<input type="checkbox"/>		50,666	-1,420	-2.73	
Senate 24	<input type="checkbox"/>	<input type="checkbox"/>		49,905	-2,181	-4.19	
Senate 25	<input type="checkbox"/>	<input type="checkbox"/>		50,444	-1,642	-3.15	
Number of Districts: 18				Target Mean = 52,086			
				Maximum Dev. (%): 10			
				Swap...			
				Rename...			

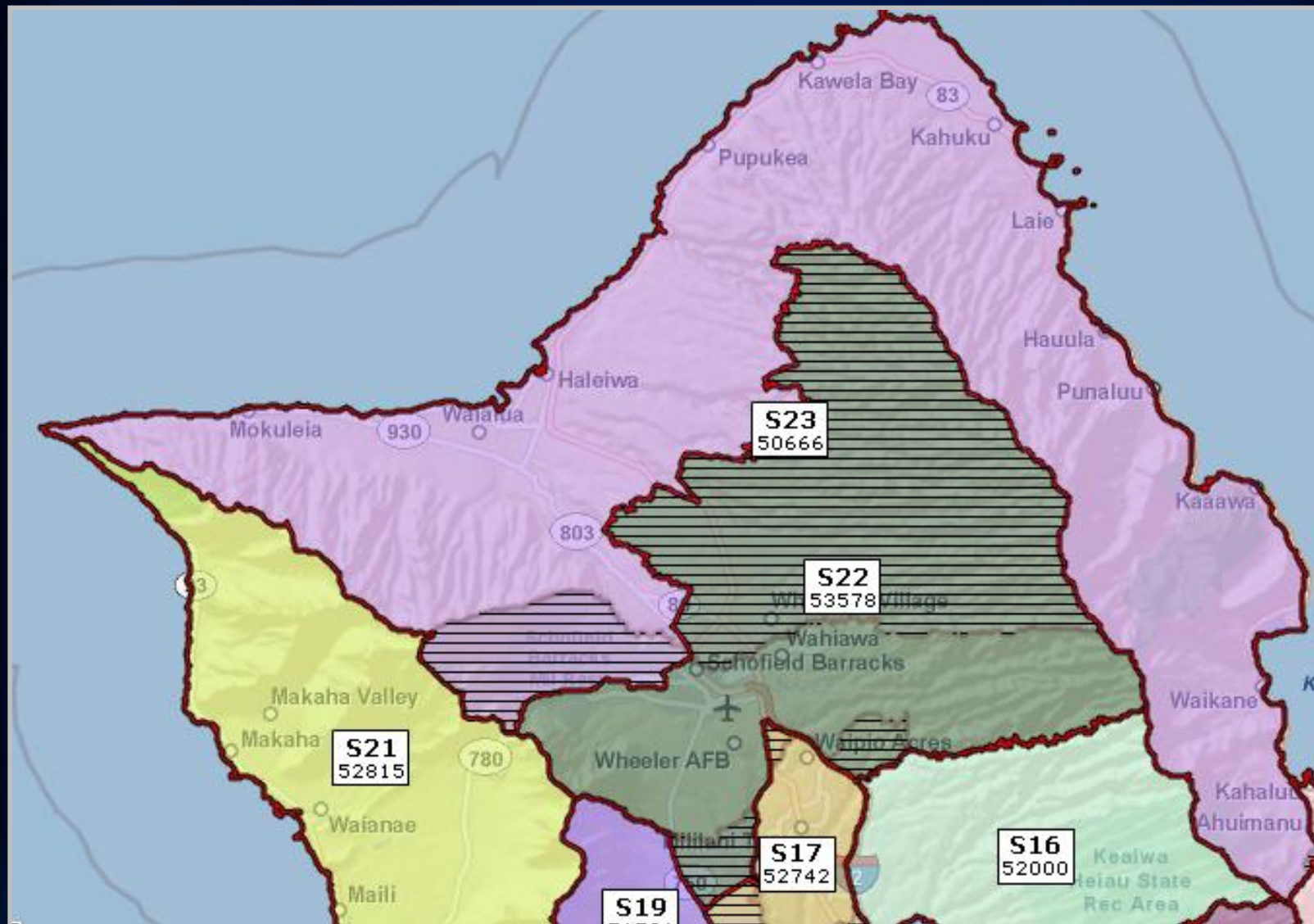
Recommended Final Plan – Senate Oahu



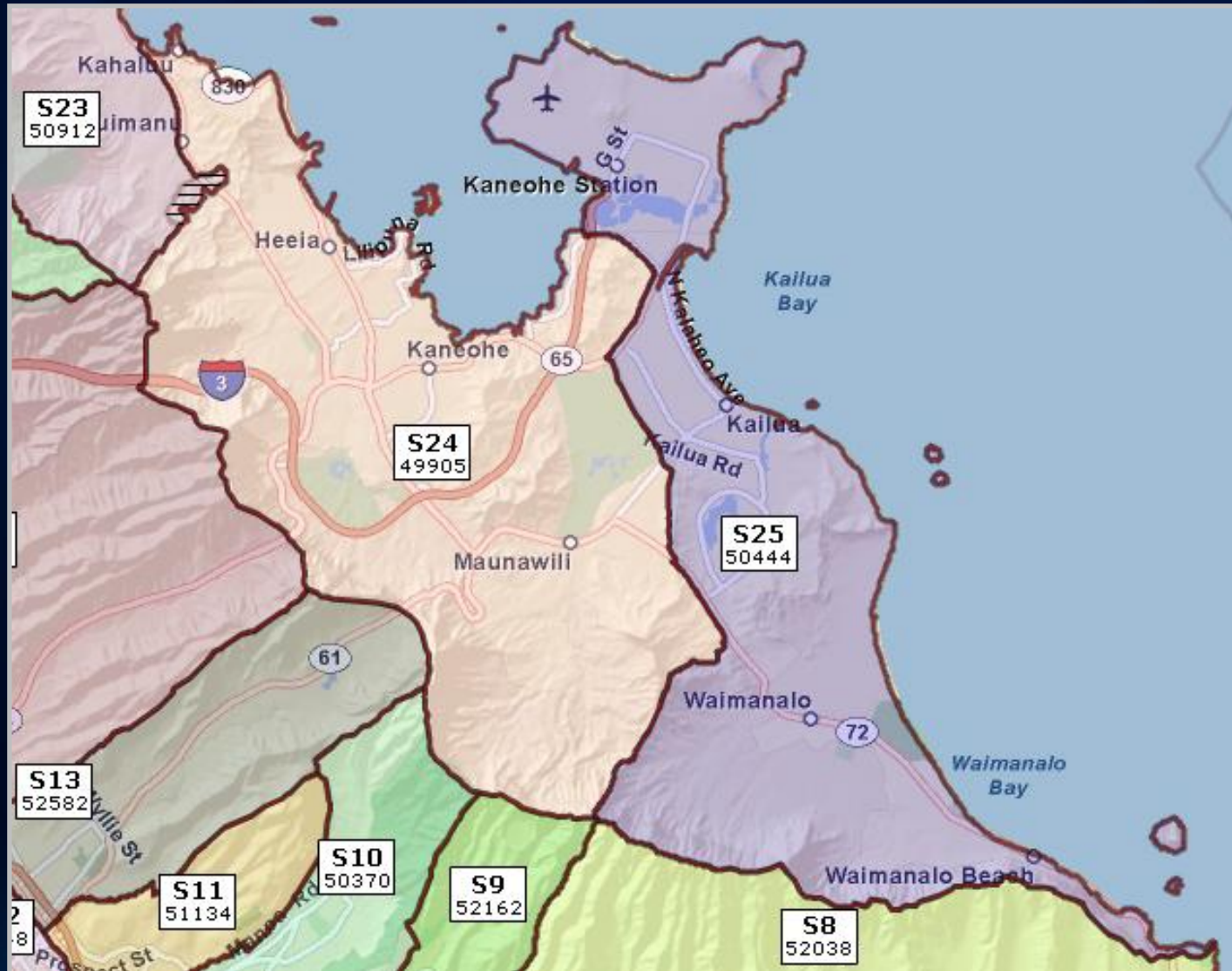
Recommended Final Plan – Senate Oahu



Recommended Final Plan – Senate Oahu



Recommended Final Plan – Senate Oahu



Aug 5 Proposed Plan – House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

Plan: House Hawaii
 Districts: seven (House 1 - 7)
 Target Population: 26,440 per district

PROPOSED PLAN: HOUSE HAWAII

Plan Deviation: 3.94%
 highest deviation: 2.40%
 lowest deviation: -1.54%



District Statistics							
				Current	Proposed	Assigned	Comparison
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 1	<input type="checkbox"/>	<input type="checkbox"/>		26,762	322	1.22	
House 2	<input type="checkbox"/>	<input type="checkbox"/>		26,446	6	0.02	
House 3	<input type="checkbox"/>	<input type="checkbox"/>		26,032	-408	-1.54	
House 4	<input type="checkbox"/>	<input type="checkbox"/>		27,074	634	2.40	
House 5	<input type="checkbox"/>	<input type="checkbox"/>		26,153	-287	-1.09	
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,424	-16	-0.06	
House 7	<input type="checkbox"/>	<input type="checkbox"/>		26,188	-252	-0.95	

Number of Districts: 7 Target Mean = 26,440
 Maximum Dev. (%): 10 Swap... Rename...

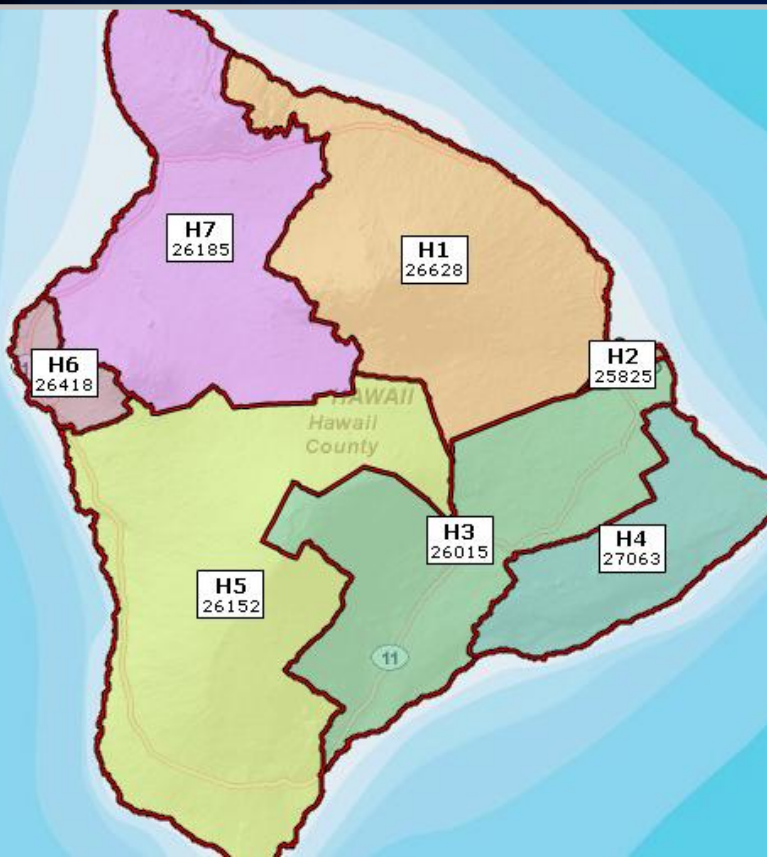
Recommended Final Plan – House Hawaii

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: HAWAII HOUSE

Plan: Hawaii House
 Districts: seven (House 1 - 7)
 Target Population: 26,327 per district

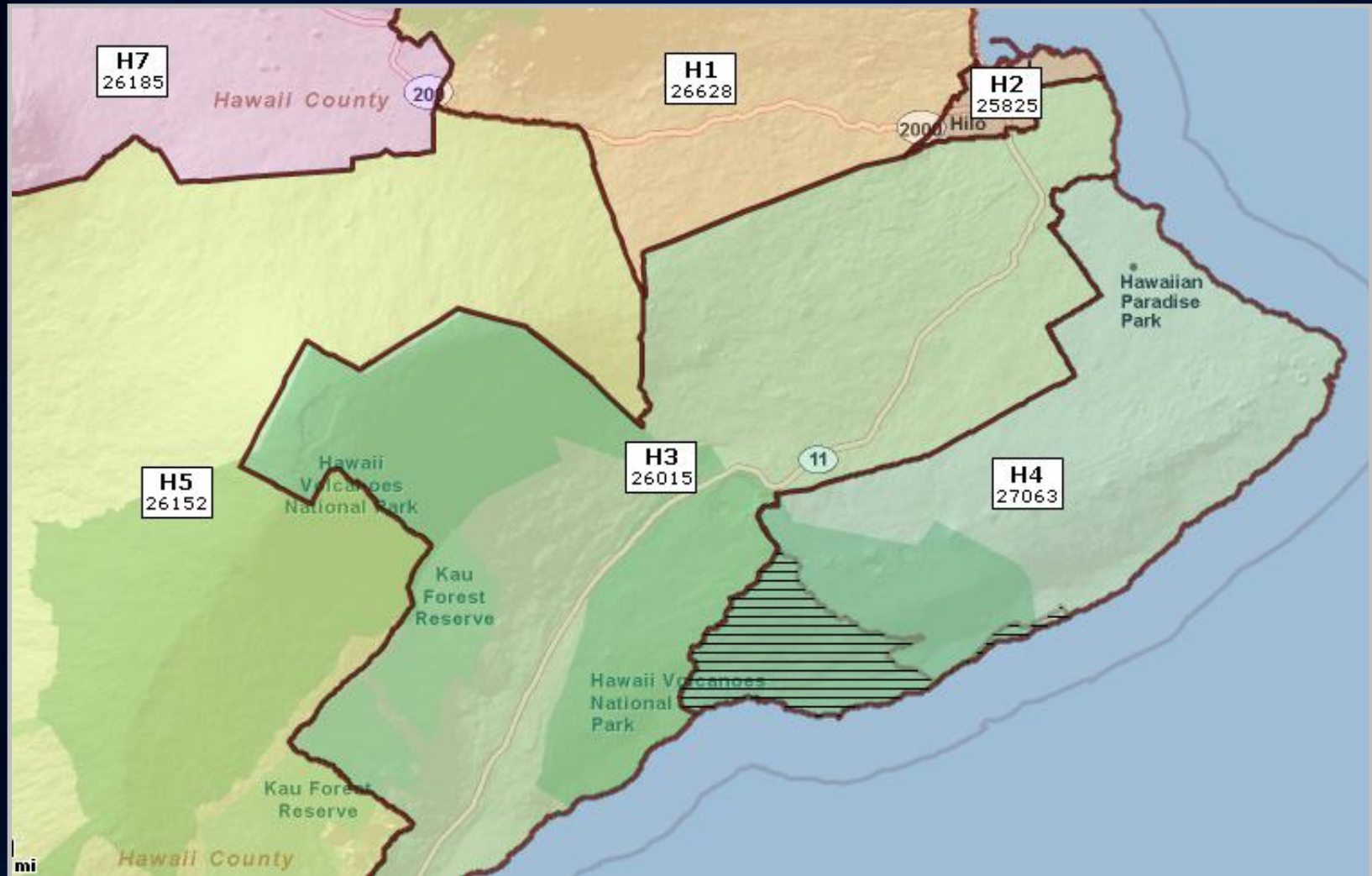
Plan Deviation: **4.71%**
 highest deviation: 2.80%
 lowest deviation: -1.91%



District Statistics							
Current Proposed Assigned Comparison							
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 1	<input type="checkbox"/>	<input type="checkbox"/>		26,628	301	1.14	
House 2	<input type="checkbox"/>	<input type="checkbox"/>		25,825	-502	-1.91	
House 3	<input type="checkbox"/>	<input type="checkbox"/>		26,015	-312	-1.19	
House 4	<input type="checkbox"/>	<input type="checkbox"/>		27,063	736	2.80	
House 5	<input type="checkbox"/>	<input type="checkbox"/>		26,152	-175	-0.66	
House 6	<input type="checkbox"/>	<input type="checkbox"/>		26,418	91	0.35	
House 7	<input type="checkbox"/>	<input type="checkbox"/>		26,185	-142	-0.54	

Number of Districts: Target Mean = 26,327
 Maximum Dev. (%): 10

Recommended Final Plan – House Hawaii



Aug 5 Proposed Plan – House Maui

HAWAII REAPPORTIONMENT COMMISSION








PROPOSED PLAN: HOUSE MAUI

Plan: House Maui
Districts: six (House 8 - 13)
Target Population: 25,821 per district

Plan Deviation: **9.53%**
highest deviation: 4.74%
lowest deviation: -4.79%

District Statistics

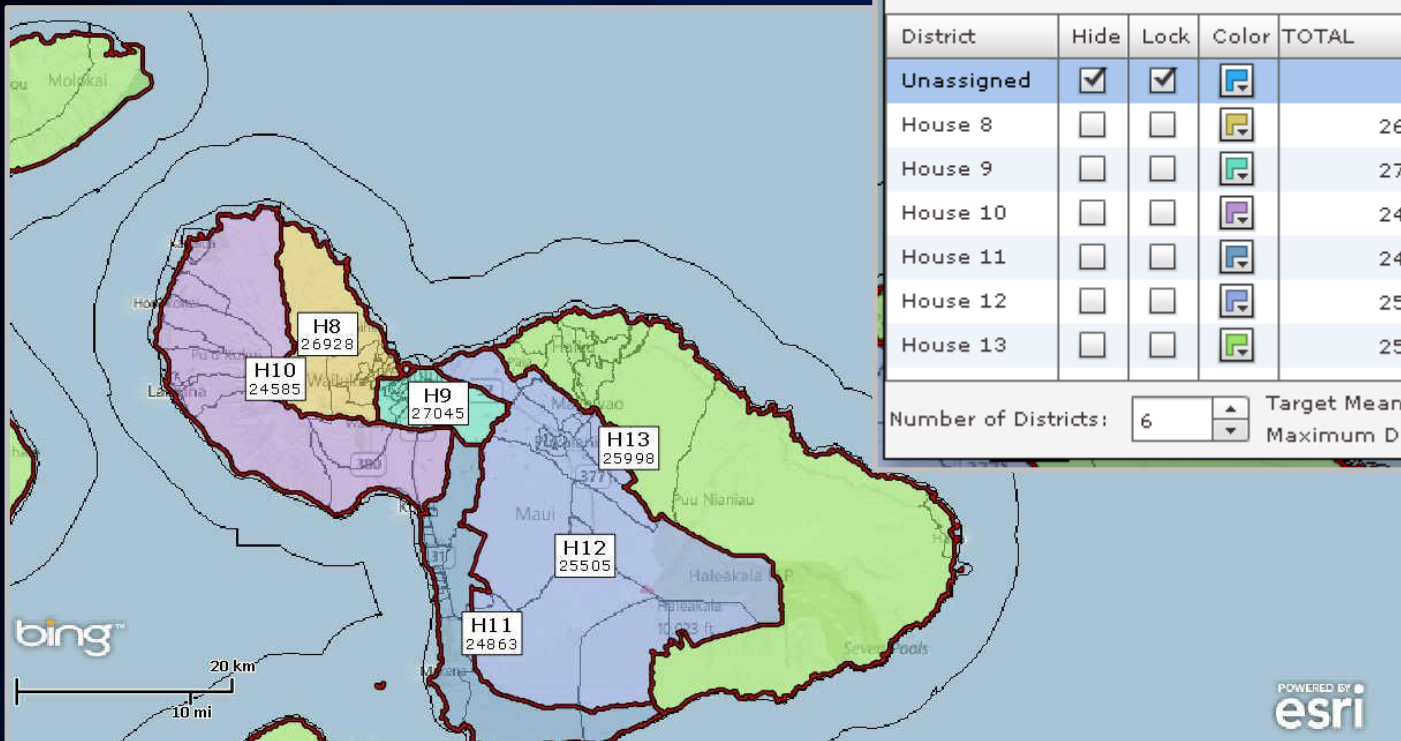
Current Proposed Assigned Comparison

District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 8	<input type="checkbox"/>	<input type="checkbox"/>		26,928	1,107	4.29
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,045	1,224	4.74
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,236	-4.79
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,863	-958	-3.71
House 12	<input type="checkbox"/>	<input type="checkbox"/>		25,505	-316	-1.22
House 13	<input type="checkbox"/>	<input type="checkbox"/>		25,998	177	0.69

Number of Districts: 6 Target Mean = 25,821
Maximum Dev. (%): 10

Swap...

Rename...



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Recommended Final Plan – House Maui

HAWAII REAPPORTIONMENT COMMISSION

Plan: Maui House
Districts: six (House 8 - 13)
Target Population: 25,820 per district

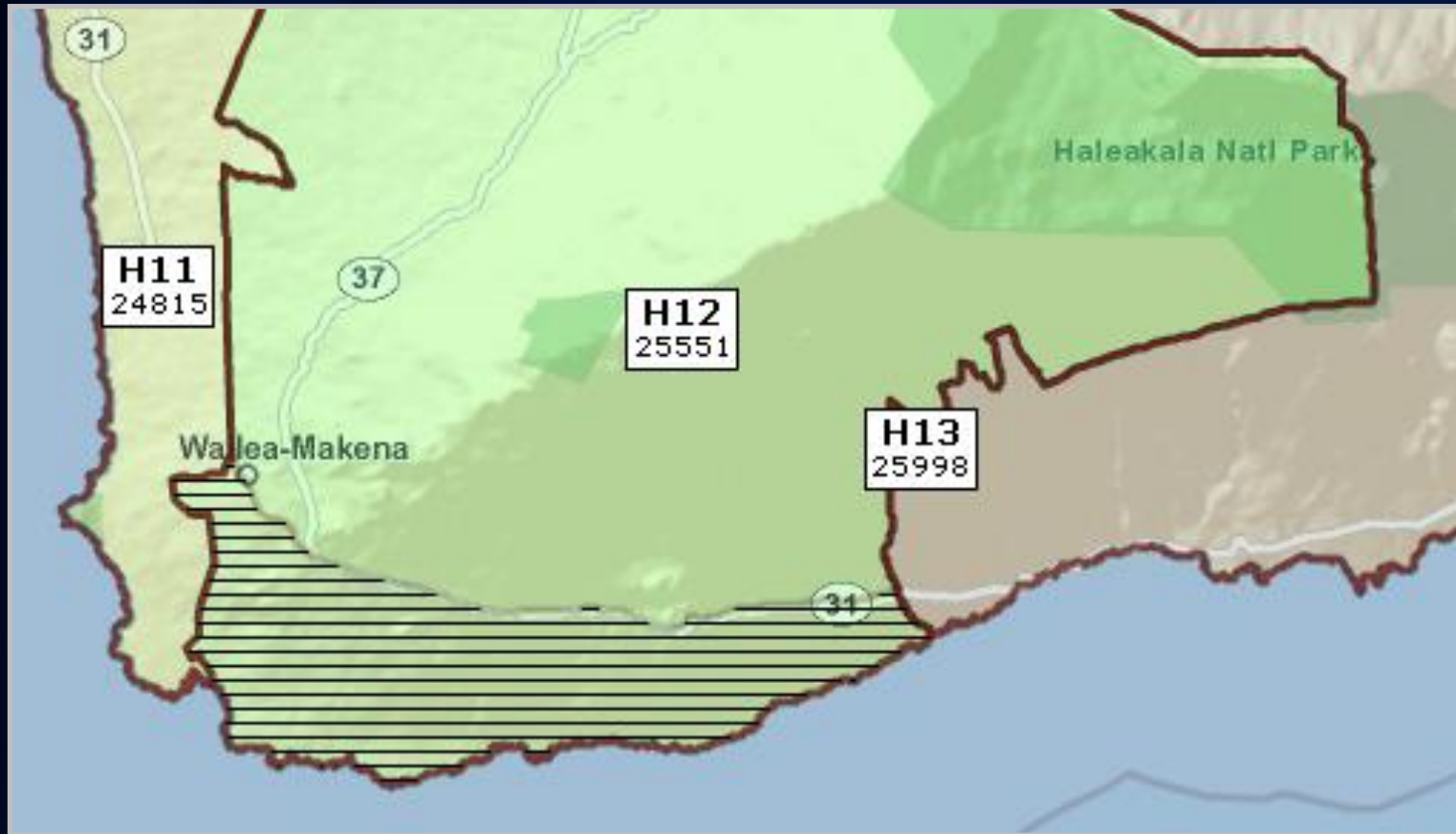
FINAL PLAN: MAUI HOUSE

Plan Deviation: 9.52%
highest deviation: 4.74%
lowest deviation: -4.78%



District Statistics							
Current Proposed Assigned Comparison							
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 8	<input type="checkbox"/>	<input type="checkbox"/>		26,927	1,107	4.29	
House 9	<input type="checkbox"/>	<input type="checkbox"/>		27,044	1,224	4.74	
House 10	<input type="checkbox"/>	<input type="checkbox"/>		24,585	-1,235	-4.78	
House 11	<input type="checkbox"/>	<input type="checkbox"/>		24,815	-1,005	-3.89	
House 12	<input type="checkbox"/>	<input type="checkbox"/>		25,551	-269	-1.04	
House 13	<input type="checkbox"/>	<input type="checkbox"/>		25,998	178	0.69	
Number of Districts:				6	Target Mean = 25,820 Maximum Dev. (%): 10		
					<button>Swap...</button> <button>Rename...</button>		

Recommended Final Plan – House Maui



Aug 5 Proposed Plan – House Kauai

HAWAII REAPPORTIONMENT COMMISSION

PROPOSED PLAN: HOUSE KAUAI

Plan: House Kauai
Districts: three (House 14 - 16)
Target Population: 22,364 per district

Plan Deviation: **8.83%**
highest deviation: 3.42%
lowest deviation: -5.41%



District Statistics							
Current		Proposed		Assigned		Comparison	
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,810	446	1.99	
House 15	<input type="checkbox"/>	<input type="checkbox"/>		23,128	764	3.42	
House 16	<input type="checkbox"/>	<input type="checkbox"/>		21,153	-1,211	-5.41	
Number of Districts: 3				Target Mean = 22,364			Swap...
				Maximum Dev. (%): 10			Rename...

Recommended Final Plan – House Kauai

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: KAUAI HOUSE

Plan: Kauai House
Districts: three (House 14 - 16)
Target Population: 22,363 per district

Plan Deviation: 3.82%
highest deviation: 1.99%
lowest deviation: -1.82%



District Statistics

Current Proposed Assigned Comparison

District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00
House 14	<input type="checkbox"/>	<input type="checkbox"/>		22,809	446	1.99
House 15	<input type="checkbox"/>	<input type="checkbox"/>		21,955	-408	-1.82
House 16	<input type="checkbox"/>	<input type="checkbox"/>		22,326	-37	-0.17

Number of Districts: 3 Target Mean = 22,363
Maximum Dev. (%): 10

Swap...

Rename...

Recommended Proposed Final Plan – House Kauai



Recommended Final Plan – House Oahu

HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: OAHU HOUSE

Plan: Oahu House
 Districts: thirtyfive (House 17 - 51)
 Target Population: 26,787 per district

Plan Deviation: 9.46%
 highest deviation: 4.85%
 lowest deviation: -4.61%

Current Proposed Assigned Comparison							
District	Hide	Lock	Color	TOTAL	TOTAL_DEV	TOTAL_DEV_P	
Unassigned	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0	0.00	
House 17	<input type="checkbox"/>	<input type="checkbox"/>		26,937	150	0.56	
House 18	<input type="checkbox"/>	<input type="checkbox"/>		27,256	469	1.75	
House 19	<input type="checkbox"/>	<input type="checkbox"/>		27,120	333	1.24	
House 20	<input type="checkbox"/>	<input type="checkbox"/>		26,898	111	0.41	
House 21	<input type="checkbox"/>	<input type="checkbox"/>		26,970	183	0.68	
House 22	<input type="checkbox"/>	<input type="checkbox"/>		27,693	906	3.38	
House 23	<input type="checkbox"/>	<input type="checkbox"/>		25,969	-818	-3.05	
House 24	<input type="checkbox"/>	<input type="checkbox"/>		25,889	-898	-3.35	
House 25	<input type="checkbox"/>	<input type="checkbox"/>		26,299	-488	-1.82	
House 26	<input type="checkbox"/>	<input type="checkbox"/>		26,599	-188	-0.70	
House 27	<input type="checkbox"/>	<input type="checkbox"/>		26,173	-614	-2.29	
House 28	<input type="checkbox"/>	<input type="checkbox"/>		27,593	806	3.01	
House 29	<input type="checkbox"/>	<input type="checkbox"/>		26,540	-247	-0.92	
House 30	<input type="checkbox"/>	<input type="checkbox"/>		26,787	0	0.00	
House 31	<input type="checkbox"/>	<input type="checkbox"/>		26,149	-638	-2.38	
House 32	<input type="checkbox"/>	<input type="checkbox"/>		27,109	322	1.20	

House 33	<input type="checkbox"/>	<input type="checkbox"/>		26,747	-40	-0.15
House 34	<input type="checkbox"/>	<input type="checkbox"/>		27,473	686	2.56
House 35	<input type="checkbox"/>	<input type="checkbox"/>		26,822	35	0.13
House 36	<input type="checkbox"/>	<input type="checkbox"/>		26,502	-285	-1.06
House 37	<input type="checkbox"/>	<input type="checkbox"/>		27,430	643	2.40
House 38	<input type="checkbox"/>	<input type="checkbox"/>		27,461	674	2.52
House 39	<input type="checkbox"/>	<input type="checkbox"/>		26,057	-730	-2.73
House 40	<input type="checkbox"/>	<input type="checkbox"/>		27,590	803	3.00
House 41	<input type="checkbox"/>	<input type="checkbox"/>		27,706	919	3.43
House 42	<input type="checkbox"/>	<input type="checkbox"/>		27,421	634	2.37
House 43	<input type="checkbox"/>	<input type="checkbox"/>		28,086	1,299	4.85
House 44	<input type="checkbox"/>	<input type="checkbox"/>		26,170	-617	-2.30
House 45	<input type="checkbox"/>	<input type="checkbox"/>		27,602	815	3.04
House 46	<input type="checkbox"/>	<input type="checkbox"/>		27,999	1,212	4.52
House 47	<input type="checkbox"/>	<input type="checkbox"/>		25,553	-1,234	-4.61
House 48	<input type="checkbox"/>	<input type="checkbox"/>		25,716	-1,071	-4.00
House 49	<input type="checkbox"/>	<input type="checkbox"/>		25,772	-1,015	-3.79
House 50	<input type="checkbox"/>	<input type="checkbox"/>		25,702	-1,085	-4.05
House 51	<input type="checkbox"/>	<input type="checkbox"/>		25,757	-1,030	-3.85

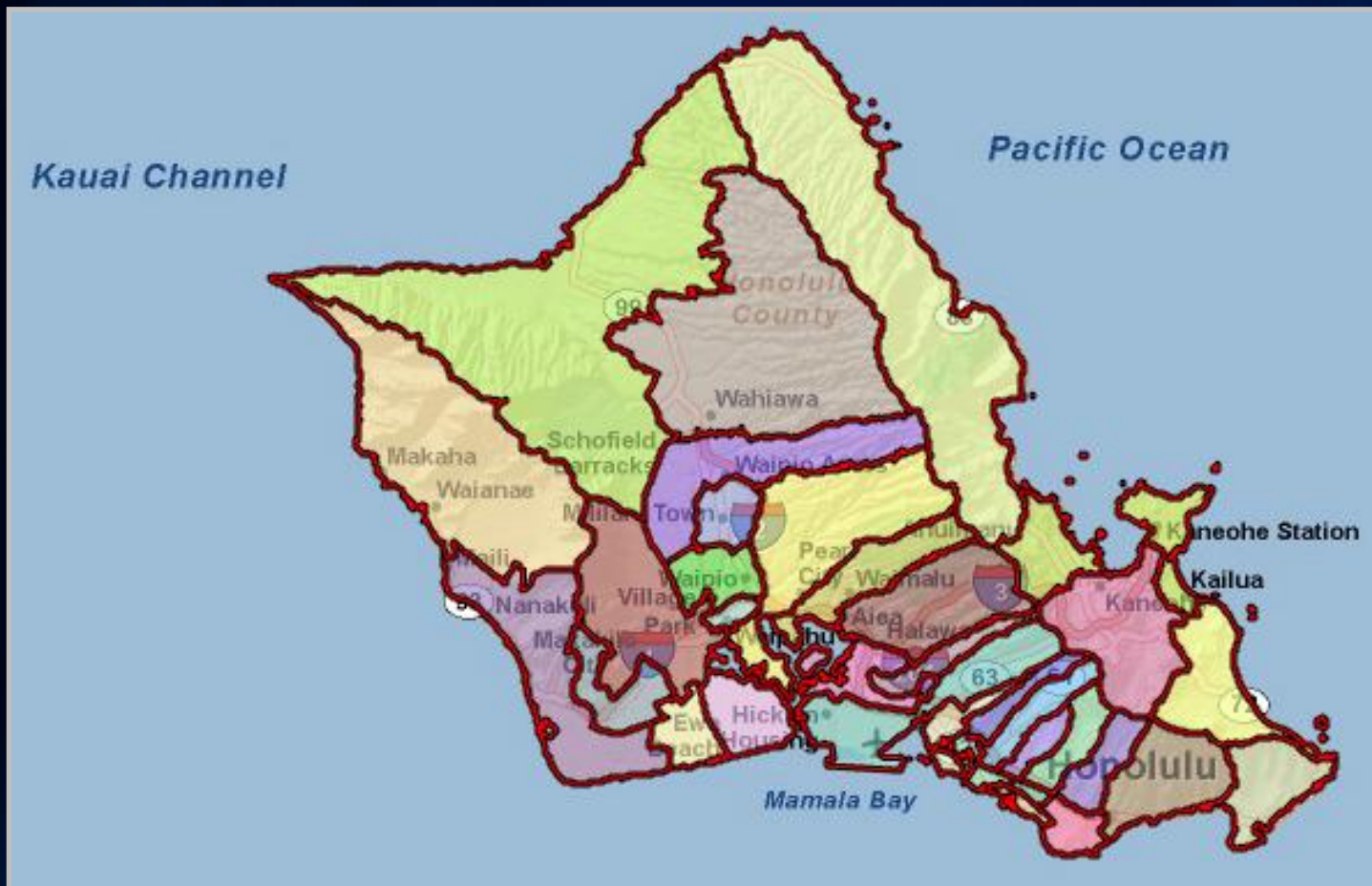
Number of Districts: 35 Target Mean = 26,787
 Maximum Dev. (%): 10 Swap... Rename...

Recommended Final Plan – House Oahu

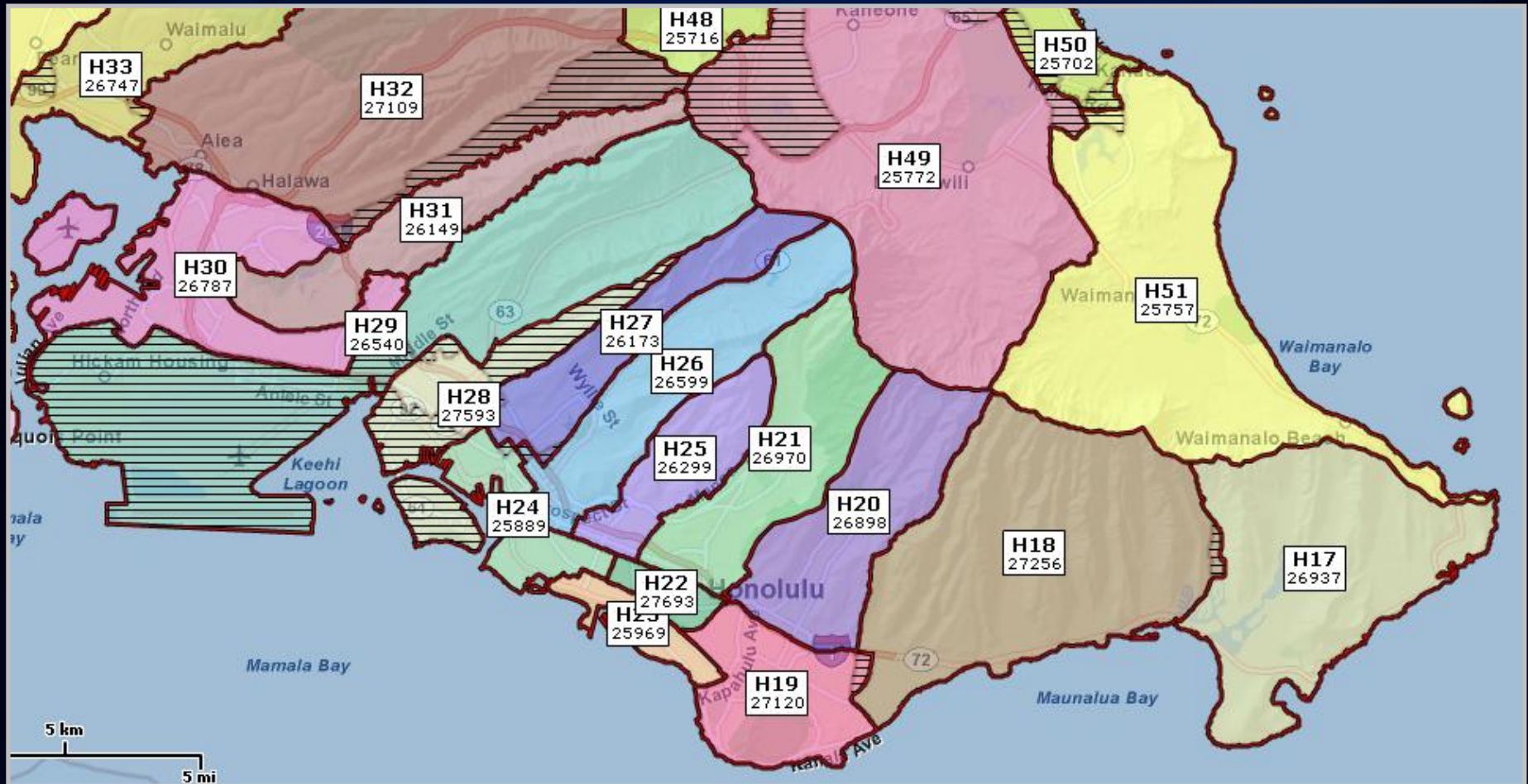
HAWAII REAPPORTIONMENT COMMISSION

FINAL PLAN: OAHU HOUSE

Plan:	Oahu House	Plan Deviation:	9.46%
Districts:	thirtyfive (House 17 - 51)	highest deviation:	4.85%
Target Population:	26,787 per district	lowest deviation:	-4.61%



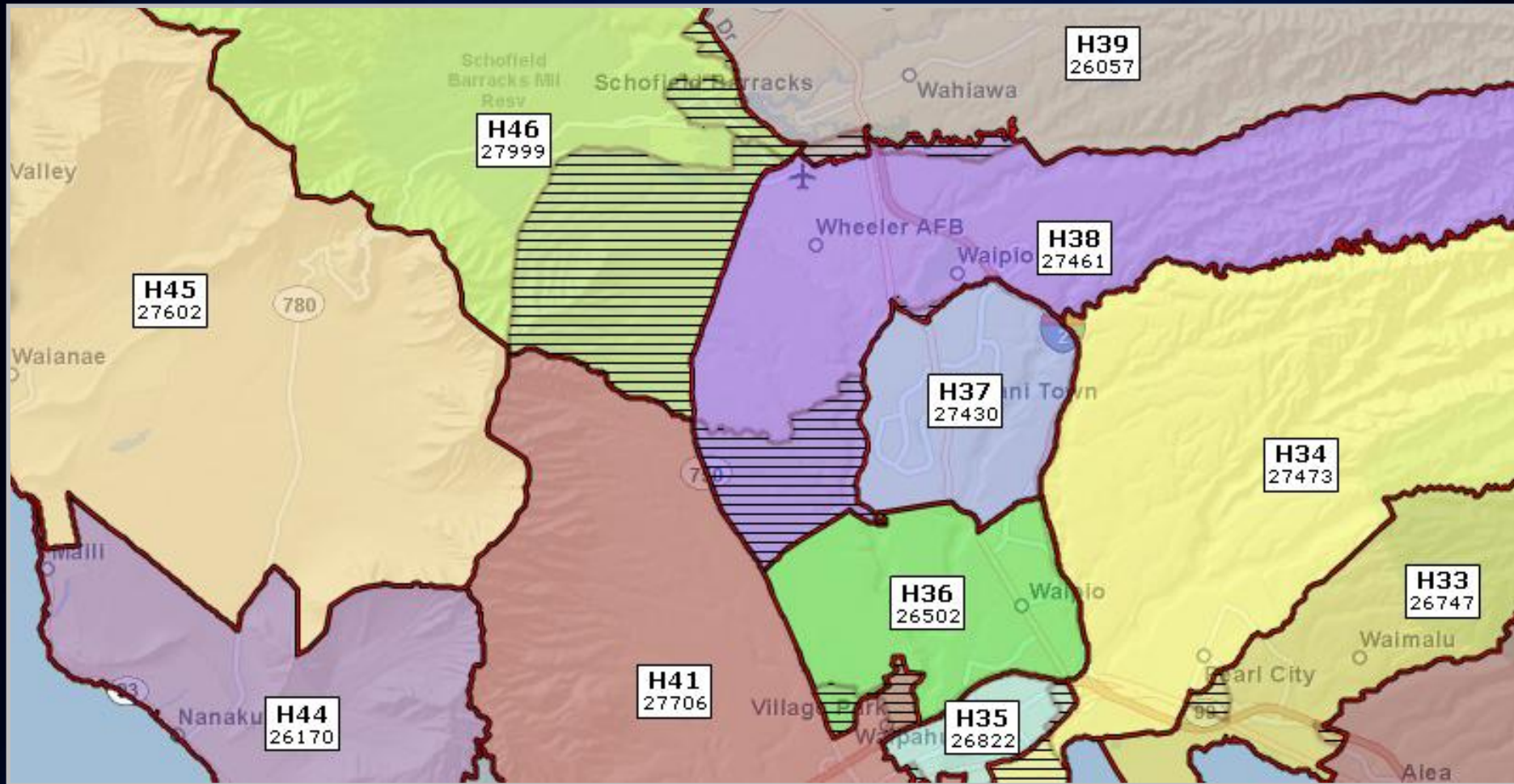
Recommended Final Plan – House Oahu



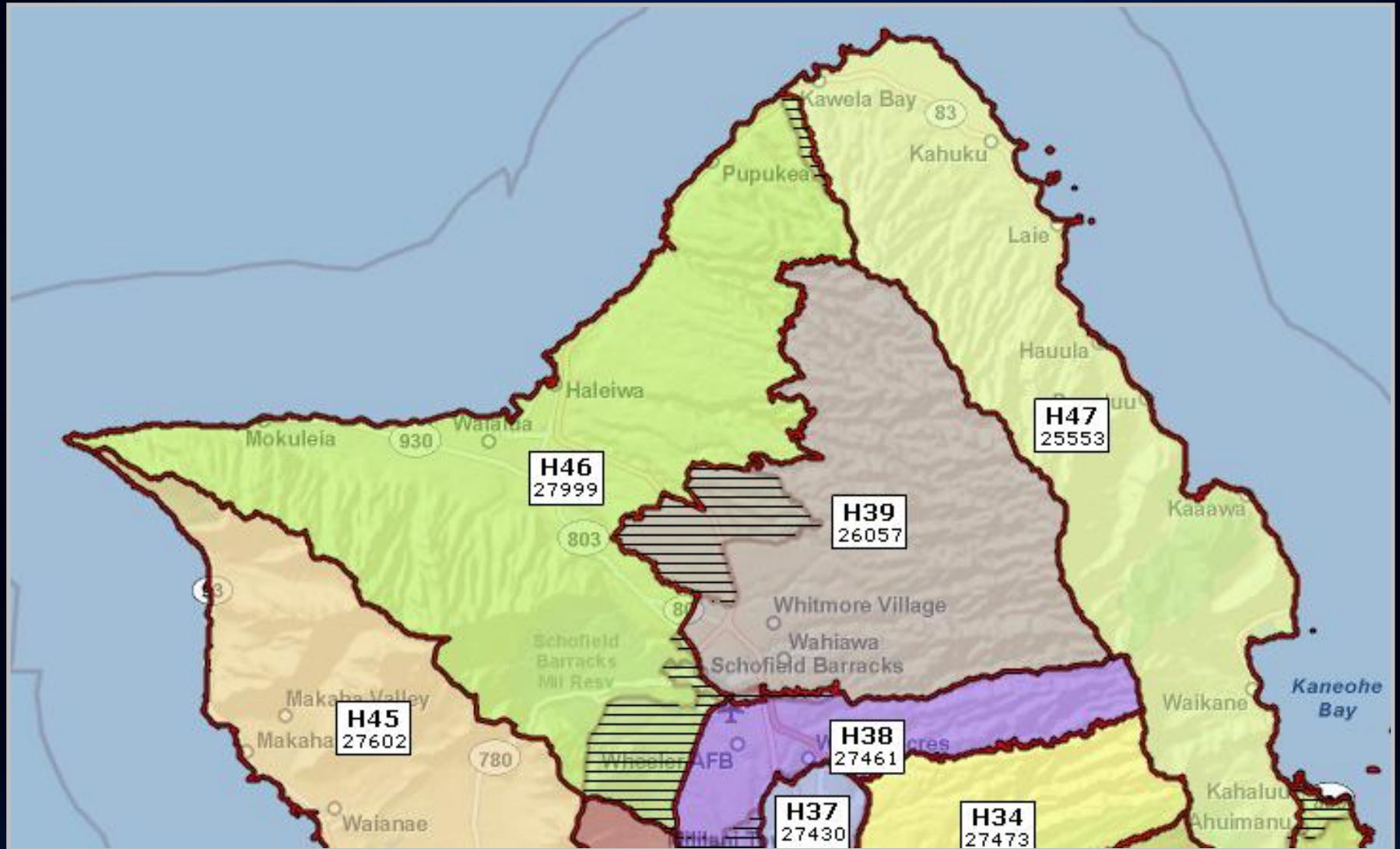
Recommended Final Plan – House Oahu



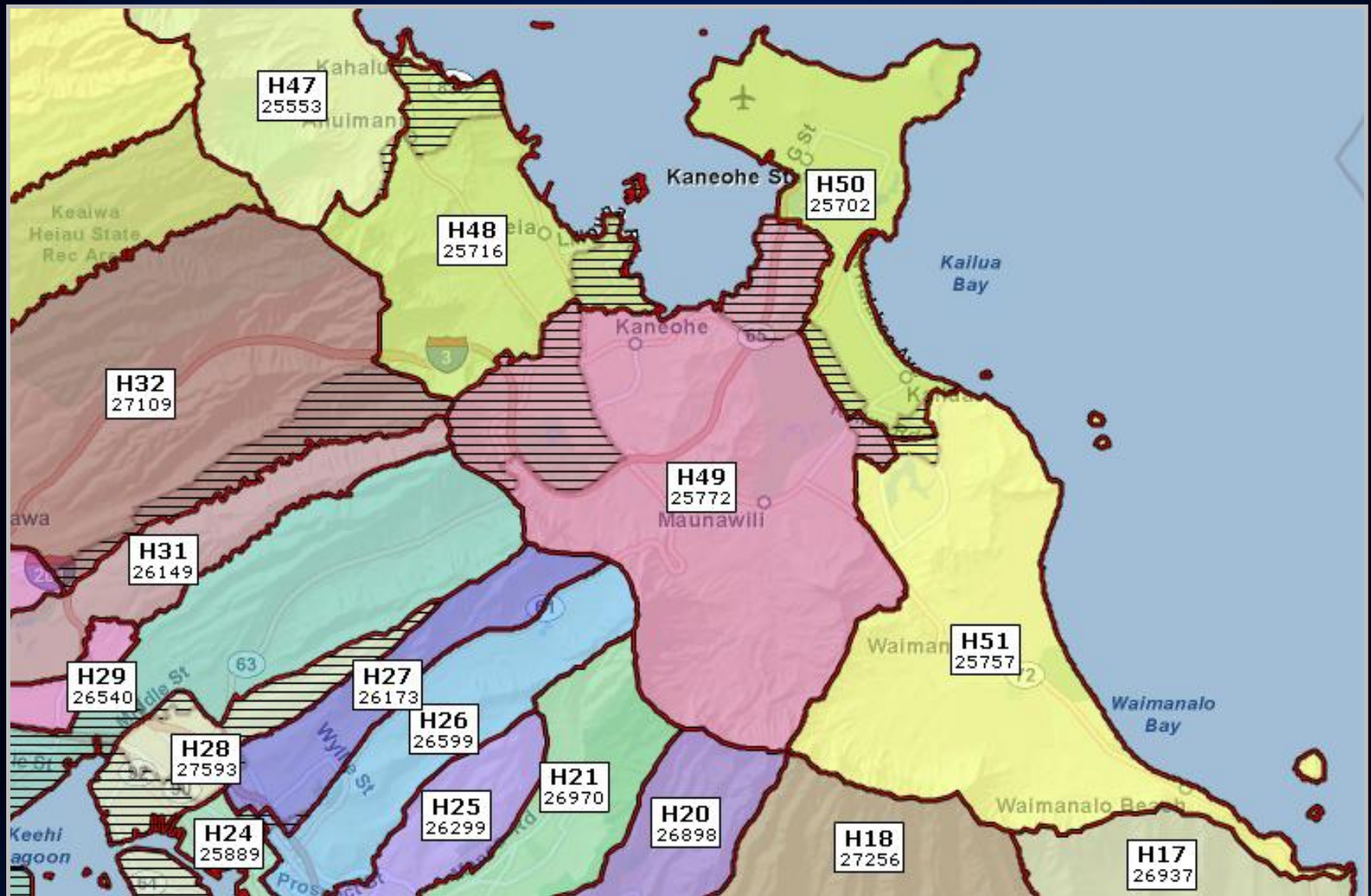
Recommended Final Plan – House Oahu



Recommended Final Plan – House Oahu



Recommended Final Plan – House Oahu



Topics

- Reapportionment using “Extraction A” population base
- Senate Staggered Terms for 2012
- Hawaii Reapportionment Commission Plan
 - Congress
 - Senate
 - House

 • Commission Schedule

Commission Schedule

Aug 5	Commission Meeting: Adopt proposed plan
Aug 30 – Sep 16	Public Hearings and Comment Period
Sep 26	Commission Meeting
Sep 26	Statutory deadline to file final plan with Chief Election Officer
Oct 10	Statutory deadline for Chief Election Officer to publish final plan
Dec 29	Statutory deadline to submit final report to State Legislature



Hawaii Reapportionment Commission

26 September 2011

Commission Meeting

Reapportionment Project Office: Contact Information

<http://hawaii.gov/elections/reapportionment>

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State Capitol

415 South Beretania Street, Rm #445

Honolulu, HI 96813

Telephone: (808) 586-4100

Toll Free: (877) 854-6749

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Email: reapportionment@hawaii.gov

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